A Level
Music Technology

Component 4 Section A: Workbook Tasks 1-11

NAME:

Task 1

Research information about the following Guitar effects pedals.

Pedal	Information/History
Dunlop Cry Baby 	
ProCo Rat 	
Electro-Harmonix Memory Man 	

Task 2

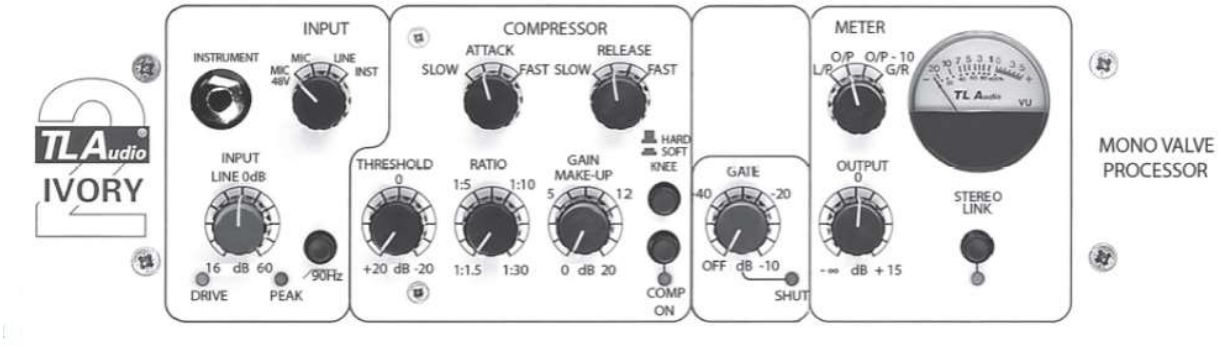
Evaluate these Guitar Amplifier settings for:

Heavy Metal Guitar:

Rhythm Jazz Guitar:

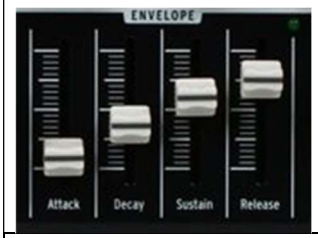
Task 3

Below is a valve compressor. Explain the functions of the controls that can be seen in the picture.



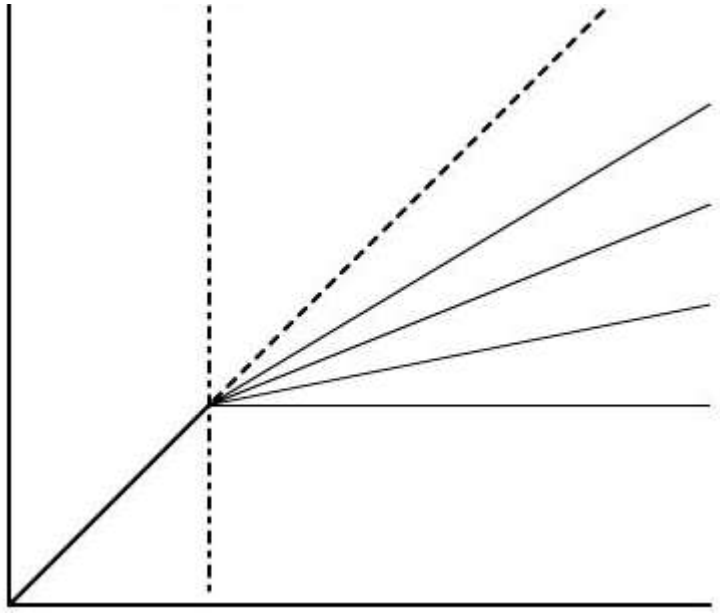
Control	Function
Attack	
Release	
Ratio	
Threshold	
Make-up Gain	
Input Gain	
Output Gain	
Stereo Link	

Task 4

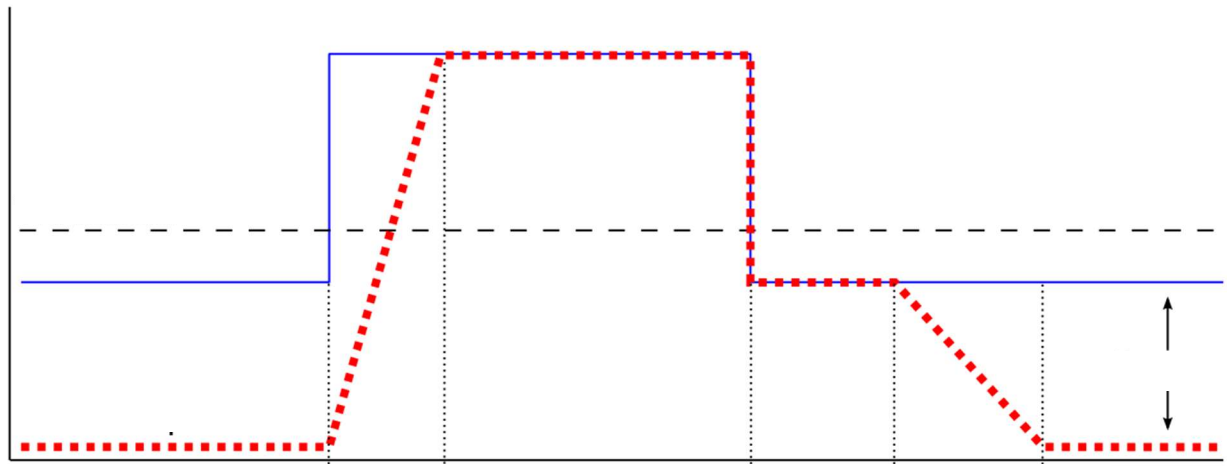
Synthesiser Parameter	Explanation/Example
Oscillator 	
Pitch Fine & Coarse 	
Amplifier	
Filter 	
Envelope 	
Low Frequency Oscillator (LFO) 	

Task 5

Label the graph below: Compression



Label the graph below: Noise Gate



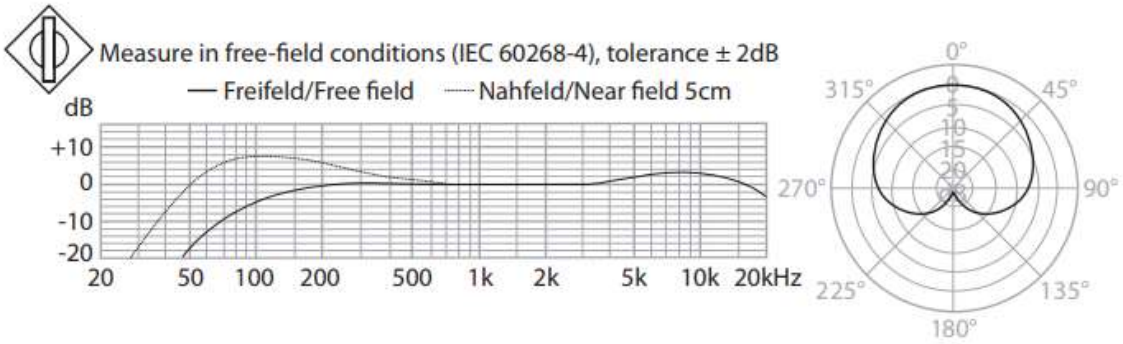
Task 6

Complete the MIDI Control Change Messages table below:

MIDI CC Number	MIDI CC Purpose	MIDI CC Description
MIDI CC 0	Bank Select	Allows user to switch bank for patch selection. Program change used with Bank Select. MIDI can access 16,384 patches per MIDI channel.
MIDI CC 1	Modulation	Generally this CC controls a vibrato effect (pitch, loudness, brighness). What is modulated is based on the patch.
MIDI CC 2	Breath Controller	Often times associated with aftertouch messages. It was originally intended for use with a breath MIDI controller in which blowing harder produced higher MIDI control values. It can be used for modulation as well.
MIDI CC 3	Undefined	
MIDI CC 4		
MIDI CC 5		
MIDI CC 6		
MIDI CC 7		
MIDI CC 8		
MIDI CC 9		
MIDI CC 10		
MIDI CC 11		
MIDI CC 32 – 63		
MIDI CC 64		
MIDI CC 65		

Task 7

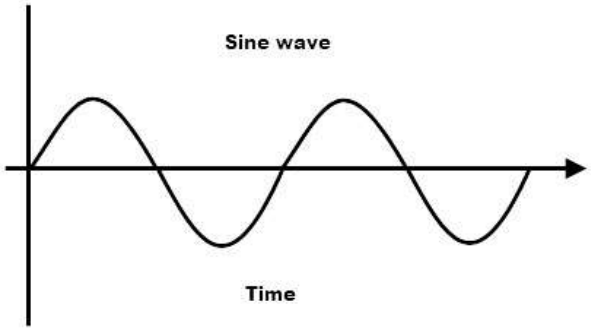
Below is the frequency response and pickup pattern for a condenser microphone.



Evaluate the suitability of this microphone to record Lead Vocals. (8)

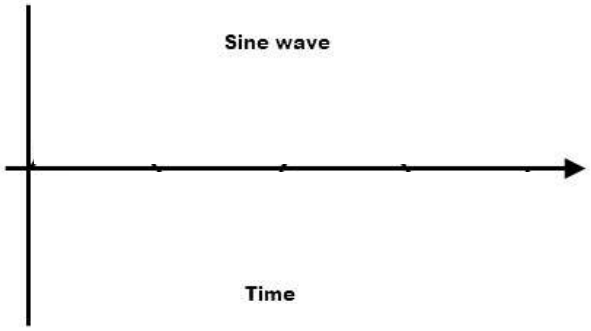
Task 8

Below is a sine wave.

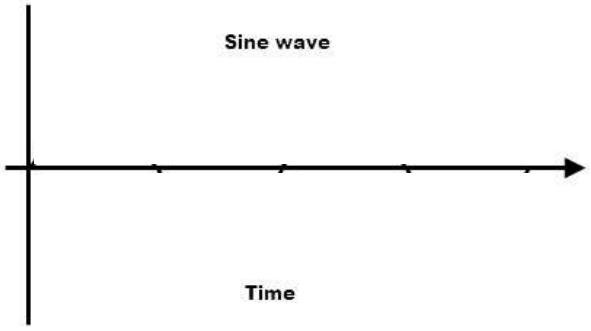


Use the boxes below to explain the difference between soft and hard clipping and how they are created.

Draw the sine wave after soft clipping:



Draw the sine wave after hard clipping:



Task 9

1. What does quantise do?

_____

_____

_____

2. What are the 7 standard quantise values?

1.
2.
3.
4.
5.
6.
7.

3. How do you quantise MIDI in Logic Pro x?

_____

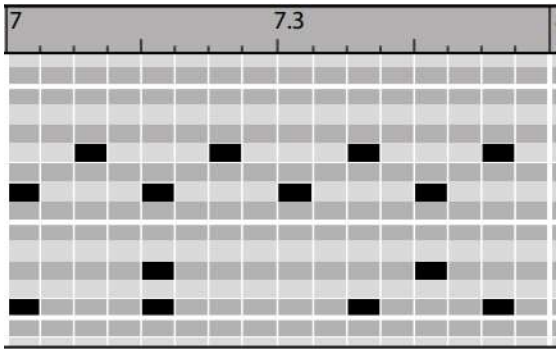
_____

4. How do you change the quantise value in Logic Pro X?

_____

_____

5. What is the quantise value used below? _____



6. How do you know this?

_____

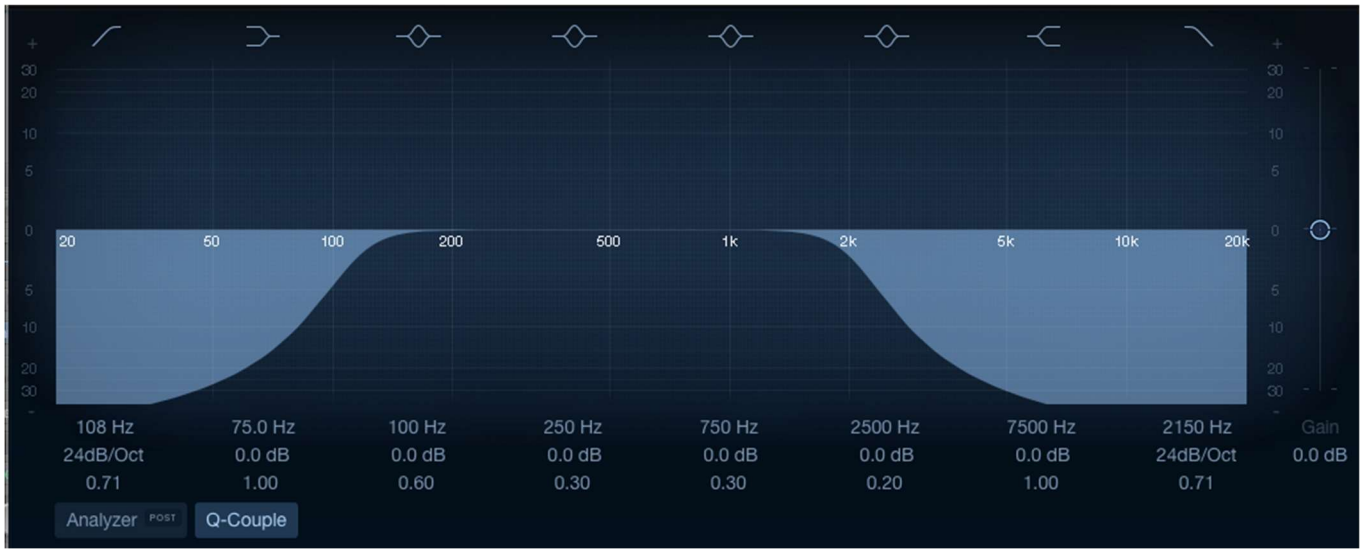
_____

_____

_____

Task 10

1. Below is Logic's stock Parametric EQ.



2. What are the 5 different EQ curves available?

1. 2. 3. 4. 5.

3. What is the frequency range of an EQ? _____

4. Why is this?

_____

_____

_____

5. What two EQ curves are engaged on the EQ above? _____

6. What is an intrusive resonance?

_____

_____

_____

_____

7. How would you remove this?

_____

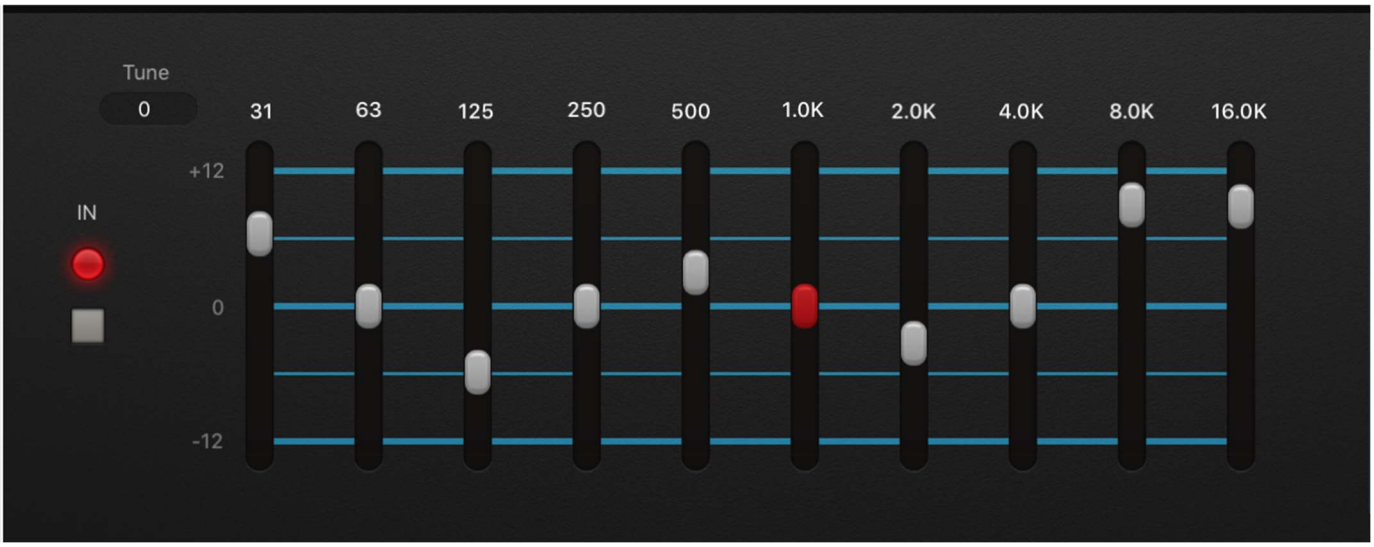
_____

_____

_____

Task 11

1. Below is Logic's stock graphic EQ.



2. How many bands are available to adjust? _____

3. Compared with the Parametric EQ, what is different about this EQ?

   1.
   2.
   3.
   4.

4. State **one** advantage of using a Graphic EQ.

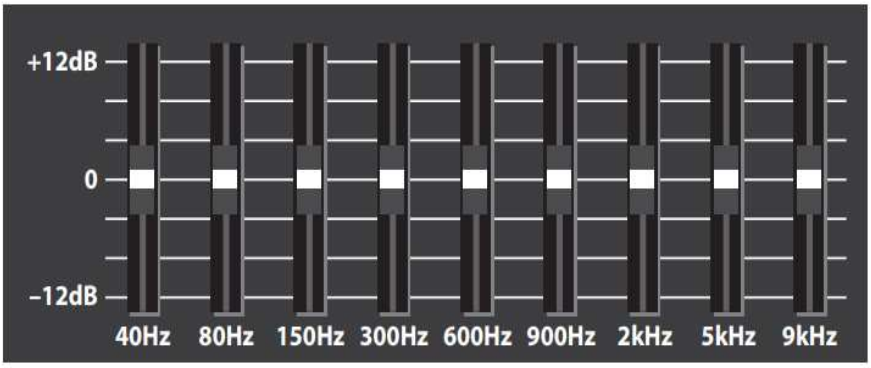
_____

_____

5. State **one** disadvantage of using a Graphic EQ.

_____

_____



6. State **two** frequency bands shown on the EQ that you would boost to enhance the bright attack of a plectrum.

   1. _____
   2. _____